

Application No.: 09/812065
Amendment dated: April 30, 2004
Reply to Office action of December 31, 2003

AMENDMENT TO THE ABSTRACT

Please substitute the new abstract, a clean copy of which is attached, for the abstract presently on file. The changes in the abstract are shown below:

An apparatus for manipulating fluid samples ~~is described.~~
~~The apparatus~~ comprises a micro-chip device having ~~at least a~~
first and second covered ~~channel with~~ channels, each channel
having openings at ~~either end of said first and second covered~~
~~channel both ends.~~ The ~~first and second covered~~ channels
intersect to form a common intersection having at least four
arms. ~~In use at~~ At least three of the openings ~~to said first~~
~~and second covered of the~~ channels are connected to a multi-
port valve to control ~~the~~ pressure in the device.